

Central Kiribati - T31 Jim Smith T31JS is active on all bands and modes through at least July 17. Reports place Jim on 40M at 05-08Z, and 1030Z for East Coast. 14195 and 14030 kHz 03-06Z, and 1130Z for East Coast. 21295 and 21030 kHz 23-04Z. 28525 kHz at 2230Z. For RTTY, try 14084 kHz 04-06Z. QSL VK9NS, donations appreciated.

Zone 2 - VE2 Martin VE2EDK and Sylvain VE2DWU will be in CQ Zone 2 July 16-27, 80-10M CW (SSB on request.) They'll especially watch for W6s on 10M. QSL home call for VE2DWU, and VE2EDK to 37 Sauvageau, Beauport, Quebec G1C 5N2, Canada. It cost \$CAN0.43 postage to the US.

Edited by Chod Harris VP2ML

The DX Bulletin

America's Premier Weekly Amateur Radio Publication

Isle of Man - GD The Liverpool and District Amateur Radio Society will operate Aug. 26-Sept. 7 from Isle of Man, including Sept. 3-4 as GD3AHD/p. All bands and modes, with special attention to low bands. RTTY 80-10M. QSL GD3AHD to G4CVZ.

Guam - KH2 Bob Winters KD7P will be stationed in Guam for almost two years, starting this August. He promises all-band, all-mode operation, and lots of contest activity as NH2/KD7P. He likes 80, 15, and 10. QSL to 68 Betel Palm, So. Finegayan, NCWP, FPO San Francisco CA 96630, with IRCs or SASE. He's looking for help to buy an anticipated 50,000 QSL cards.

Franz Josef Land - UA10 Evgeny UA0BEZ/1 will be on Heyss Is. in Franz Josef Land Sept. 1988-Oct. 1989. QSL RA3YA.

Reserve Your Island

- Tony WB2P will be on as ZF2ML from Cayman for CQWW SSB in October.
- Carl AI6V will return to Aruba for a multi-multi record attempt as P40V in CQWW SSB. He's offering a certificate for working the station on 4 or more bands.

Shortly Noted

- Dale is back as VQ9QM on CW. Try 21026-29 kHz around 1400Z. QSL W4QM.
- YB20RI will be on through August, celebrating 20 years of independence. QSL YB bureau.
- Russian signals pour over the North Pole on 20 and 15 meters most evenings.
- K2BPP/6Y5 will be there for a few weeks. Try 21325 kHz at 2200Z. QSL KA2UHS.
- BY4RB is on nightly on 14025-30 kHz, 1200-1230Z or thereabouts.
- Don't forget it's the middle of winter in the Southern hemisphere, their low-band season. ZL5BKM is on 80 and 40 meters from Antarctica. 8J1RY, the Japanese base on Antarctica, works home on 21250 at 1100Z.
- JY9LC tries to be on 14160-200 kHz 0200-0245Z most days.
- SSB net regulars are: 1Z9B ZK3RVC D68MG 5V7TM 3B9FR JX8KY TL8HW and FT5ZB on 14236 kHz at 0300Z.
- FT5ZB also likes 14025 kHz at 1030 and 0345Z, 14165 or 14215 kHz at 1000Z, or 7005 kHz at 1030Z.
- Other 40M ops are P29HS 7005-10 kHz at 1000Z, and ZK3RVC 7163 net at 0700Z.
- On 20M SSB, try A35SA 14210 kHz at 0400Z, CN2AQ at 0330Z, DU9RG 14180 kHz at 1100Z, and J52US 14225 kHz at 0145Z.
- 9Q5DX likes 21015-25 kHz at 2000Z.

Awards

- Special event stations for the Olympics from Korea include 6K24SO, 6K88SO, and 6K88BYC. HL hams can use 88 in their calls. Awards will be available for working Olympic stations. (Thanks W5YI Report.)
 - The Radio Club Venezolano and the Venezuelan Navy will be on from Los Monjes Archipelago July 14-17, with YY5-M callsigns. Work them on 4 bands for a certificate. QSL to the club at Box 2285, Caracas 1010-A, Venezuela.
 - The Laurel MD Amateur Radio Club will operate W3GFS from an island in the Chesapeake Bay July 23-24. Bottom 25 kHz of General Class subbands. QSL with large SASE for certificate to the club at Box 1436, Laurel MD 20707.
- Publishing Note There will be no issue dated July 29th, so my wife and I can get away for a week of vacation. Issue 448 will be dated Aug. 5. -ed.

PROPAGATION

Forecast and Historical Data

Day Forecast	27 Days Before	55 Days Before
July	Date Flux A K	Date Flux A K
15 Low Normal	6/18 122 13/21 3	5/21 110 10/22 2
16 Below Nor	6/19 116 20/33 3	5/22 111 07/18 1
17 Below Nor	6/20 115 14/35 3	5/23 119 04/16 0
18 High Nor	6/21 121 07/16 2	5/24 117 08/17 2
19 Low Normal	6/22 119 14/22 3	5/25 119 06/15 2
20 High Nor	6/23 125 11/17 3	5/26 125 08/16 1
21 Below Nor	6/24 135 20/31 4	5/27 127 02/10 1
22 Disturbed	6/25 150 24/48 3	5/28 127 01/12 1
23 Below Nor	6/26 155 13/29 3	5/29 136 10/16 3
24 High/Low	6/27 155 11/21 3	5/30 139 12/21 3
25 High/Low	6/28 178 14/22 1	5/31 145 09/17 2
26 Disturbed	6/29 183 26/45 3	6/1 150 06/14 2
27 Disturbed	6/30 184 21/49 3	6/2 144 05/13 2
28 Below Nor	7/1 193 13/31 3	6/3 145 05/11 0
29 Low Normal	7/2 192 11/26 2	6/4 147 01/13 1
30 High Nor	7/3 187 07/18 2	6/5 147 07/49 3
August		
1 Above Nor	7/4 175 02/15 0	6/6 154 09/19 2
2 Above Nor	7/5 166 02/14 2	6/7 160 05/15 2

Thanks KH6BZF and Space Environment Services Center.

Propagation Watch

The first 10 days of July were a summer-time treat for DXers. High flux levels and very low absorption let to excellent band conditions, especially on 20 and 15 meters.

Solar flux has retreated from its Cycle-22 high of 193 on July 1, but continues higher than one might expect at this stage in the cycle, keeping 20 meters open all night.

The extremely low absorption has even permitted DXing on 160 meters in July! The Boulder K index was zero for 24 hours July 4-5, and for 9 hours July 9.

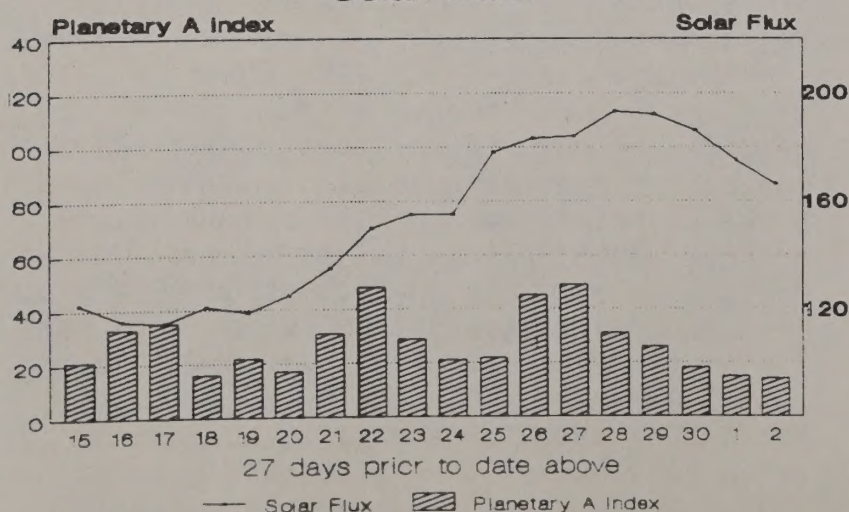
The high flux and low absorption has produced world-wide openings on 15 meters, with all continents hearing each other at the same time: a taste of what Cycle 22 is bringing our way soon!

Unfortunately, the forecast for the next few weeks is poor. We expect the recurrence of the solar activity that gave us poor band conditions around June 25th and 30th.

The good news is that sunspot regions change very rapidly at this stage of the sunspot cycle, and by the time they rotate around the sun 27.5 days later, they are often much less disruptive, and sometimes completely gone. Also, look for enhanced conditions just before a solar storm.

Except for solar storms, look for daytime DX on 15 meters, all-night DX on 20, some gray-line openings on the lower bands, and north-south (and maybe some multi-hop E-skip) on 10 and 12 meters. Good DXing!

Solar Data



Congo - TN4NW

Tom Gregory N4NW made about 4700 contacts during the July 4th weekend as TN4NW. Approximately 30% of the QSOs were with Japanese DXers, over a tough propagation path. He operated mostly 15M SSB and 20M, with a bit of 10M. Tom made about 20 contacts on 40M CW, mostly W's. No 75/80M QSOs. (Unfortunately, Slim also signed TN4NW on 40 CW.)

Tom's computer logging meant he spotted "insurance" contacts immediately. Tom returns the full call sign of the station calling, so the need for duplicate contacts is greatly reduced. Don't try working him more than once a band, or he may use the DELETE key!

Tom will return to the Congo as soon as he can get another long weekend. He'll take a tri-band beam and a 40M dipole next time.

Single-Band DXCC Awards

The ARRL Letter reminds DXers to use the new DXCC award application forms, available from ARRL Hq., for both the new single-band awards, and for the standard DXCC awards. Ask for the new DXCC application form package (MCS forms 16, 164, 216, and 253), and send a #10 (large) self-addressed envelope with two units of first class postage (\$0.45 to US, \$0.55 VE.)

DXCC Administrator Don Search W3AZD says he had received dozens of applications for the new 10-meter DXCC award by the July 1 deadline. However, he will not process those applications, nor announce standings, for at least a month.

1988 Northwest DX Convention

The British Columbia DX Club will sponsor the 1988 Northwest DX Convention July 23-24, at the Richmond Inn, Richmond BC. Registration is \$US40 or \$CAN48, payable to B.C. DX Club, from Ken Thompson, Box 3048, Blaine WA 98230, or 12467 53rd Ave., Surrey BC V3W 1A4, Canada. The DX Bulletin will see you there!

DX Challenges

One of the West Coast's more active DXers, Doc KD7SO, has been chasing Oblasts, Indonesian provinces, and other DX goals. He wonders if other DXers have done any of the following:

- 1) Worked all Oblasts in less than 3 years.
- 2) Worked all five archipelagoes in FO
- 3) Worked all 27 Indonesian Provinces
- 4) Worked all 20 provinces in P29.

Contact him at his Callbook address. Doc recommends 21345 kHz at 1300Z, especially on Saturdays, when John YB8AX/0 brings up rare YB stations, such as islands and YB9. A map of the YB provinces is available from The DX Bulletin for an SASE.

IRCs Available: \$0.50

The DX Bulletin recently came across a limited number of International Replay Coupons (IRCs.) They are available in bundles of 50 for \$US25, postage paid. Check or credit card info to The DX Bulletin, Box 50, Fulton CA 95439, or call (707) 523-1001. (We also have a bundle of "bad" IRCs, stamped on the right side or not stamped at all. Anyone interested?)

Kyokuto Manual Wanted

Jose Cespedes C. YN3CC is looking for the service manual, or even a schematic diagram, for the Kyokuto Denshi VHF FM transceiver model FM144-10SXR II, serial number 8484. Contact Jose at Box C-89, Managua, Nicaragua. Jose says he is on the air most evenings 0400-0700Z on 20 meters, but he also checks 7010 kHz for activity.

BANDPASS

Reports Wanted,
Especially RTTY, 30 meters

-----RTTY-----
5W1GP 14089 0545 2 CA
7J1ADJ 14075 0109 4 FL
CO2BB 14097 0230 4 OH
CX5AE 14095 2213 3 FL
HH2FX 14086 0731 2 CA
OE2DAN 14095 0140 4 OH
PJ2MI 14090 1040 5 OH
RB5IO 14085 0325 4 OH
SV5TS 14085 2317 2 FL
T31JS 14083 1930 6 CA
UA3TN 14080 0300 4 OH
UM8MM 14086 0042 5 FL
UM9MWA 14083 0023 4 MN
UW6CM 14085 0520 6 CA
VK2AAX 14088 0707 6 CA
YO6JN 14087 0325 4 OH
ZK1CG 14092 0234 17 FL

-----160 Meters-----
PP7JR 1834 0030 4 MA
T31JS 1832 0949 5 MD
UB3IWA 1835 0103 28 MA
UR2RGN 1833 0050 28 MA

-----80 Meters-----
PY0FF 3503 0036 4 MA
YJ8NJS 3505 1130 5 IA

-----75 Meters-----
PY0FF 3796 2349 3 PA
T31JS 3798 0550 4 WA
TR8JLD 3797 0459 3 MA
VK6HE * 3798 2334 3 PA
VP8BFM 3788 2355 5 PA
YC0WR * 3791 2358 3 PA
ZK3RVC 3799 1012 7 PA
ZL5BKM 3798 0958 5 PA
ZS3/ 3791 0510 2 MA

ZS4NS
ZS4PB 3799 0516 3 MA

-----40 Meters-----
5T5NU 7163 0613 4 OR
7X3DA 7004 0410 4 TN
FK8FU 7010 1140 1 WY
FT5ZB 7006 1024 7 FL
HL5BCW 7004 1220 3 ID
LU5EAS/Z 7163 0804 25 NV
P29HS 7004 1000 5 IA
PY0FF 7004 0115 3 MA
TU4CO 7010 0605 4 WA
ZD8HR 7001 0251 4 TN
ZK2JT 7163 0722 27 MD
ZL5BKM 7005 1020 4 CT

-----30 Meters-----
JA7URW 10104 1225 2 NH
JD1/ 10102 1345 4 WA
JF3QMJ
VK2HW 10107 1227 2 NH
ZL1BKR 10106 1230 2 NH

-----20 Meter CW-----
3A0JD 14038 1956 4 NY
3B8CF 14035 0337 29 PA
5T5DX 14032 2109 28 TN
7S6SO 14018 0107 6 FL
7X4VUK 14023 2123 3 FL

9H3IJ 14017 2354 4 MT
9J2EJ 14002 0646 3 WA
9M2LE 14015 1154 22 JA
BV2B 14005 1131 4 NH
BY4RB 14030 1240 1 NJ
CN8FC 14003 2358 9 FL
CS0REP 14026 0133 2 MA
FT2XE 14055 1105 2 FL
FT5ZB 14023 0333 5 CT
FT5ZB 14025 1529 6 OR
GB75DX 14026 0445 3 FL
GM3BRA/A 14010 2253 27 MI
HB0CZS 14002 0257 2 PA
HL1XP 14006 1350 1 PA
J52US 14004 2245 27 MD
JT1BR 14027 1535 4 MN
JW0B 14022 0150 5 FL
KH3/WY5L 14012 0910 1 JA
OY6FRA 14026 1630 3 MN
OY7ML 14027 0732 5 CA
PJ2AM 14042 0052 29 NY
ST2KR 14027 2345 7 FL
T20AA 14010 1155 30 CT
T31JS 14030 0948 3 JA
TF/DK2OY 14025 0120 2 TN
TR8JLD 14027 2314 3 MN
TU4CO 14009 2114 3 MA
UA10/ 14026 0331 4 MN

UA0BDU
UC1LWN 14048 0402 3 FL
UD6DKM 14025 0045 5 FL
UG6GAW 14017 0051 3 PA
UI9AWX 14007 1650 2 WA
UV0BB 14023 0044 29 MI
VO8AC 14026 0306 1 TN
XU1SS 14025 1335 5 MT
Y88SOP 14029 0646 5 CA
ZA2MM ! 14021 0039 9 FL
ZD8HR 14007 2156 4 JA
ZF2AH 14027 1221 5 NY
ZS1AAX * 14027 1307 2 MT

When you work a DX station
say you saw his call in
The DX Bulletin

-----20 Meter SSB-----
3B9FR 14210 0320 2 MA
3B9FR * 14190 1158 25 FL
3D2AG 14213 0649 2 CA
3D2MP 14187 0637 1 OR
3DA0BC 14205 1345 6 OR
4K0D 14165 1200 4 NH
5T5NU 14231 0415 1 PA
5V7TM 14240 2154 30 NH
6W6JX 14160 0019 30 MA
6W8/ 14176 0115 6 MA

EA4RCT
9K2KW 14173 2238 29 MA
9M8PV 14165 1200 1 NJ
9N1RN 14196 1508 6 OR
A24KH 14209 0705 2 CA
A35SA 14210 0400 2 MA
A92BE 14220 0100 3 MA
BY1QH 14219 1252 7 MA
C21BD 14165 1235 29 CO
CE0GHO 14212 0153 30 OH
CN2AQ 14188 0340 2 CO
D68MG 14236 0358 3 OR

DU9RG 14180 1135 5 CT
FH8CB 14210 0335 2 MA
FR5DX 14205 0339 3 TN
FT5ZB 14214 1115 7 OR
HK0EFU 14180 0208 2 MA
HZ1HZ 14180 0800 4 CA
J52US 14223 0142 3 CT
J52US 14190 0051 30 MA
JY1 14295 1749 5 MA
JY5CI 14237 0402 19 VT
JY9LC 14200 0213 5 NV
KG6DX 14198 1200 4 OH
KH2F 14196 1100 7 OH
KX6HE 14197 1045 5 OH
LS8E 14187 0254 3 IL
OH0BH 14216 0259 29 CT
OY2J 14220 0741 4 NV
OY9JD 14171 2355 2 MN
P29GN 14158 1340 27 WA
P29VCH 14234 0810 4 CA
P4/N4WF 14215 1250 6 CO
TA2/ 14215 0340 4 OH
N4EXR

TA2U 14213 0344 28 CA
TN4NW 14145 0655 2 CA
UJ8JCM 14245 0227 25 VA
UL8GWB 14173 0053 2 MA
UQ1GWW 14212 0220 3 FL
V85BA 14176 1200 22 FL
V85SK 14176 1212 22 FL
VQ9CQ 14195 1154 2 WA
VR6ID 14240 0317 5 MD
XX9KA 14226 1504 4 OR
YB8DSX 14207 1313 2 MA
YI0SW 14235 2206 4 JA
YJ8FB 14214 0546 4 TN
YO0BM 14209 0239 6 MA
ZK3RVC 14218 0550 29 MA
ZK3YY 14163 0844 23 NV

-----15 Meter CW-----
3A0JD 21039 2240 5 FL
4K1A 21019 1145 2 FL
8Q7MT 21043 1529 26 JA
9H3IJ 21014 1856 3 FL
9L1GG 21006 1140 2 FL
9L1GG 21035 1020 3 CT
9Q5DX 21025 2030 3 ID
BV2DA 21007 1842 4 NH
CE0FFD 21004 0050 3 MA
CN8FC 21027 2001 3 MN

GJ2LU 21030 1355 3 FL
HZ1AB 21025 1433 4 FL
HZ1AB 21030 2214 6 FL
JT/OK1XC 21010 1003 29 JA
KX6DS 21026 2320 2 CT
OD5PL 21021 2020 1 PA
PZ1AV 21046 2008 4 NY
TF/DK2OY 21026 1520 3 FL
TN4NW 21024 2030 1 NJ
TR8JLD 21034 2123 8 FL
TU4CO 21010 2038 4 FL
TU4CO 21010 1514 9 FL
UF6QAE 21007 1832 4 WI
UH8ED 21010 0436 6 OR
UI9ACQ 21028 1914 4 WI
UJ8JA 21035 1531 9 FL
VK9NL 21030 0213 4 FL
VQ9QM 21029 1429 4 FL
ZD8HR 21004 1725 4 FL

-----15 Meter SSB-----
3C1JPF 21200 1641 2 JA
3C1JPF 21300 2205 4 CT
5T5NV 21266 1453 3 MA
5V7WD 21210 1552 25 TN

7P8DP 21241 1143 3 WV
8J1RY 21250 1121 26 JA
9M6HF 21215 1153 26 JA
9N1MC 21316 1710 5 OR
9Q5NW 21287 1600 4 TN
9Q5UN 21242 2024 3 MN
9V1TJ 21239 1626 4 MD
9V1WU 21330 1525 5 MO
A22RB 21250 1415 4 WI
A92BE 21295 2238 4 CT
BY4RB 21227 1525 3 MA
C53FJ 21237 1225 3 WV
CE0DFL 21275 0411 6 OR
CN8EL 21218 2220 29 IA
CN8ST 21309 1720 29 NY
D44BC 21289 1830 4 TN
DV1/ 21227 1220 5 FL

K1BAZ
EL2BN 21253 1902 3 MA
HH7PV 21293 2325 3 MA
HK0NJI 21340 1318 3 WV
HZ1AB 21344 1733 3 MT
HZ1AB 21280 0145 4 OH
J52US 21311 1955 3 IA
KG6DX 21253 2231 4 MA
KH3/WY5L 21246 0423 3 MD
OD5NT 21232 2300 28 MA
OD5RF 21227 1427 28 JA
PZ1AR 21324 2019 4 NY
S92LB 21294 2045 9 WV
SU/ 21305 1700 2 JA

PA3AXU
SV0DX 21216 1420 1 NJ
SV5TS 21252 2024 4 MA
T30BC 21250 0333 1 CA
T32AB 21242 0327 24 JA
TL8HW 21336 1919 91 MD
TN4NW 21250 2006 2 MS
TR8JLD 21260 1917 3 MA
UH8EAV 21288 1421 28 JA
UI8LAD 21281 1858 4 TN
UI8QZ 21219 0422 6 OR
UI8ZAA 21240 0228 5 PA
VU2GI 21268 0019 5 NH
YC0LOG 21207 1625 2 WV
ZD8HR 21253 1711 1 NJ
ZD8MAC 21210 1151 3 WV
ZK1CT 21255 0200 4 IA
ZK3RVC 21240 2157 1 WA

-----10 Meter CW-----
4X4DK 28024 2220 5 FL
KG6DX 28021 0005 6 FL
VQ9QM 28025 1459 5 NY
YJ8NJS 28019 0250 4 TN

-----10 Meter SSB-----
4U1UN 28499 1504 5 TN
5H1HK 28548 0957 26 EU
5V7WD 28495 1805 25 EU
9Q5UN 28507 2230 2 NJ
J52US 28493 1920 2 MA
T31JS 28520 2215 3 CA
TN4NW 28490 1617 4 MD
TR8JLD 28480 1800 2 CO
V44KAR 28490 2208 1 MA

July-August Calendar

Sun	Mon	Tue	Wed	Thu	Fri	Sa
26	27	28	28	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Key to Bandpass: Callsign, frequency, UTC, day of month state. * = long path, P = Packet. All 'portable' calls are listed with country of operation first, regardless of format used on the air.

State _____ Postal Code _____
City _____
Address _____
Name _____
Call sign _____
Print your Name, Call sign and complete mailing address clearly.
Signature _____ Expires _____
Charge my MasterCard/ _____
(\$29 Second-Class Mail to Lower 48 States \$38 First-Class Mail \$50 Overseas Airmail Overseas subscribers: send U.S. cash, postal money order or check drawn on U.S. bank.)
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CALENDAR

Issue 446 - July 15, 1988

(Changes and hot info in boldface.)
Amsterdam - FT8Z FT5ZB 14165+ 1000Z I446
7005 1030Z; 14025 1030Z
Antarctica ZL5BKM 80/40 8J1RY 15I446
Bahrain - A92 A92BE 21200-230 03Z I442
Brunei - V85 V85BA 14175-215 12Z I444
Cape Verde - D4 D44BC 14205 0300Z I444
Cen. Kiribati T31 T31JS to July 17 I446
40M 05-08Z, 20M 03-06Z
15M 23-04Z, 10M 2300Z
Chagos - VQ9 VQ9QM 21025-30 1400Z I446
China - BY BY4RB 14025-30 1230Z I446
Christmas - T32 T32BE Sept. 15-21 I441
Corsica - TK TK/HB9TL from Jul 14 I441
Easter Is.- CE0 CE0FFD 21288 0245Z I444
E. Malaysia - 9M 9M8PV 14165 1230Z I443
Franz Josef Land UA0BEZ/1 Sept. 1988 I446
Gabon - TR TR8JLD 14020 05, 21Z I443
Guam - KH2 KH2/KD7P from August I446
Guinea-Bissau J5 J52US 14225 0145Z I446
Isle of Man - GD Aug. 26-Sept. 7 I446
Jordan - JY JY9LC 14190 0200Z I445
Juan Fernandez CE0ICD 14256 at 2100 I443
Kerquelen - FT-X FT5XE 14055 1100Z I442
Kenya - 5Z4 5Z4DU 21320 1830Z I442
Kure - KH7 KH6LW/KH7 July 13-27 I443
Lebanon - OD OD5LX 14022 0200Z I445
Liechtenstein HB0 HB0/F6GMB Aug 8-20 I437
Los Monjes - YY5 July 14-17 I446
Malta - 9H 9H3IJ 20/15 CW 2000Z I445
Marshall Is. KX6 KX6HN 14196 1215-13Z I440
Monaco - 3A 14165 kHz 05Z F9RM I443
Mongolia - JT JT1BR 14027 1400Z I440
Morocco - CN CN2AQ 20M SSB 0330Z I446
Nicaragua - YN YN3EO 14003 0100Z I444
Norfolk Is. VK9N VK9ND 21370 0130Z I445
North Cooks ZK1 ZK1WL 10/15 SSB 0300 I443
Ogasawara - JD1 KA2IJ July 20-27 I443
Rwanda - 9X 9X5SP 14292 0230Z I442
St. Pierre - FP by W9s Aug 10-18 I440

Sao Tome - S9 S92LB 21290 2000Z I445
Solomons - H4 H44X to Aug. 10 I444
Taiwan - BV BV2DA 14005 1400Z I438
BV2B 14223-26 1300Z I439
Tokelau - ZK3 ZK3RVC to July 20 I441
7163 net 0700Z 20m nets
Tuvalu - T2 CQWW SSB by K8JRK I432
Uganda - 5X 5X5SP 14292 1730Z I443
Virgin Is. - KP2 QRPers July 7-14 I442
W. Malaysia - 9M2 9M2LE 1130Z 20CW I443
Yemen - 4W 4W0EA Delayed I440
Zambia - 9J 9J2BO 14025 05, 12Z I443
Zaire - 9Q 9Q5DX 21036 2030Z I445
Zone 2 - VE2 VE2s EDK, DWU - July 27 I446

DX Activities and Contests

Date	Event or Activity	Info
July 18	Recip calls change	QST
July 23-24	Northwest DX Conv.	TDXB
Aug. 13-14	European CW test	CQ
Aug. 27-28	Tokyo DX Conv.	JR1AIB
Aug. 27-28	All Asian CW Test	CQ

Contributors

This Issue of The DX Bulletin would not have been possible without the invaluable assistance of the following: KH6BZF, SESC, AB8K, JA7FS, JH1ROJ, K0CVD, K1HDO, K1MEM, K1TG, K2PEQ, K2UFM, K4MF, K6IR, K6SIK, K8CV, K8RC, K9LJN, KA1BSZ, KA1XN, KA4YAE, KA7T, KC1NE, KD7SO, KE7X, KJ4BK, KJ4GK, KJ6CA, KQ3S, KX1G, N1CIX, N1DYI, N2GLH, N4MAD, N4PZF, N4XR, N6JM, NR8Z, NS7Z, NX7K, OK1306, W0BA, W0IJR, W0YVA, W1FV, W1UN, W1WAI, W3MFW, W4PSJ, W4VQ, W5XX, W6JOX, W6TFO, W6ZH, W7CRT, W8MEP, W9DH, WA1NPZ, WA4DPU, WA7RKJ, WA9AQE, WB3AVN, WB8ZRL, WF4G, ARRL Letter, KD7SO, YN3CC, NCDXC, VE2EDK, VK9NS, G4CVZ, AI6V, WB2P, W3GFS, Radio Club Venezeulo, and DL0MBC. I couldn't do it without your help. Thanks! -ed.